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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/568,291	02/16/2006	Toshiya Kaihoko	286324US6PCT	3481		
	7590 10/27/201 <b>AK, MCCLELLAND</b> 1	EXAMINER				
1940 DUKE STREET ALEXANDRIA, VA 22314			ZHAO, DAQUAN			
			ART UNIT	PAPER NUMBER		
			2484			
			NOTIFICATION DATE	DELIVERY MODE		
			10/27/2010	ELECTRONIC		

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

		Application	plication No. Applicant(s)					
Office Action Summary		10/568,291		KAIHOKO ET AL.				
		Examiner		Art Unit				
		DAQUAN ZH	AO	2484				
The MAILING DATE of Period for Reply	this communication app	ears on the co	ver sheet with the c	orrespondence ad	ldress			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to commun	ication(s) filed on 17 Se	entember 201	0					
2a) This action is <b>FINAL</b> .	Responsive to communication(s) filed on <u>17 September 2010</u> .  This action is <b>FINAL</b> .  2b) This action is non-final.							
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•	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
	·		,					
Disposition of Claims								
4)⊠ Claim(s) <u>1-5</u> is/are pend	)⊠ Claim(s) <u>1-5</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)☐ Claim(s) is/are a	5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejed	cted.							
7) ☐ Claim(s) is/are o	bjected to.							
8) Claim(s) are sub	ject to restriction and/or	r election requ	irement.					
Application Papers								
9)☐ The specification is obje	cted to by the Examine	r.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>								
Attachment(s)  1) Notice of References Cited (PTO-8 2) Notice of Draftsperson's Patent Dra 3) Information Disclosure Statement(s Paper No(s)/Mail Date	awing Review (PTO-948)	4) 5) 6)	Interview Summary Paper No(s)/Mail Da Notice of Informal Pa	te				

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### **DETAILED ACTION**

### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/17/2010 has been entered.

## Response to Arguments

2. Applicant's arguments with respect to claims 1-5 have been considered but are moot in view of the new ground(s) of rejection.

## Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Okada et al (US 7,305,170 B2) and Hyodo et al (US 6,021,250) and further in view of Umenura et al (US 5,708,637).

For claim 2, Okada et al teach a recording medium in which encoded content information is to be recorded, the recording medium including:

a data area in which the content information is recorded in units of an access block each including a succession of frames (e.g. figures 2 and 8, column 9, lines 5-13 and column 5, lines 24-30, MPEG video data contains I-frame, B-frame and P-frame are recorded in the unit of sector in the DVD); and

a management area in which management information for the content information is to be recorded (e.g. abstract, figure 16, column 12, lines 20-23, figure 16 shows a ACCESS MAP is recorded in the VIDEO MANAGEMENT INFORMATION (VIDEO MANAGER)),

the leading one of the frames of each access block being taken as the base point of decoding (e.g. figure 24, column 22, lines 8-21, each block entries is begins with I-picture because each GOP in MPEG begins with the I-picture);

the management area having recorded therein the recording-position information for each access block and output-time information for the leading block of each access block (e.g. abstract, column 12, lines 20-31 and figure 22A, column 19, line 41- column 20, line 7, PTS stands for Presentation Time Stamp, which indicates the time the picture is presented or output, "an index value to the block number of the block in which the I-picture is stored" corresponds to the recording-position information);

However, Okada et al fail to teach the data area having information other than the leading one along with each access block. Hyodo et al teach the data area having information for the frames other than the leading one along with each access block (e.g. figure 18, memory for P-type key frame table 34, and figure 20b shows the start sector number of P-key frame). It would have been obvious to one ordinary skill in the art at

the time the invention to incorporate the teaching of Hyodo et al into the teaching of Okada et al to recorded therein the recording-position information for frames other than the leading one and output-time information for the frames (PTS stands for Presentation Time Stamp, which indicates the time the picture is presented or output, "an index value to the block number of the block in which the I-picture is stored" corresponds to the recording-position information) separate the information from the I-frame for easy searching of whereabouts of records of data (e.g. Hyodo et al, column 3, lines 11-21).

Okada et al and Hyodo et al do not further specify a contiguous data area, a contiguous management area, and block size information of the recording-position information. Umemura et al teach a contiguous data area, a contiguous management area, and block size information of the recording-position information (e.g. figures 2-4, column 5, lines 1-3, 10-15 and 28-40). It would have been obvious to one ordinary skill in the art at the time the invention was made to incorporate the teaching of Umemura et al into the teaching of Okada et al and Hyodo et al to place the content data right next to the management data to increase the data search speed for the reading operation.

Claims 1 and 4 are rejected for the same reasons as discussed in claim 2 above, wherein figure 2 of Okada et al shows encoder 105 to encode inputs video signal, ECC processor 102, column 5, lines 30-34 teach dividing information resulted from encoding of input content into access blocks each including a succession of frames.

For claims 3 and 5 are rejected for the same reasons as discussed in claim 2 above wherein Okada et al teach a reproducing apparatus for playing a recording

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medium having encoded content information recorded therein, the apparatus comprising:

a reading means for reading data recorded in the recording medium (e.g. figure 19, column 14, line 20- column 15, line 16, optical pick up 201);

a storage means for storing management information read from the recording mean(e.g. figure 19, column 14, line 20- column 15, line 16, track buffer 203);

a decoding means for decoding content information read from the recording medium and outputting content (e.g. figure 19, column 14, line 20- column 15, line 16, video decoder 205); and

a controlling means for controlling the reading and outputting of content information (e.g. figure 19, column 14, line 20- column 15, line 16, controller 211),

the controlling means functioning to: read recording-position information for each access block and output-time information for the leading frame of each access block, pre-recorded in the management area, before reading content information recorded in the data area and storing the recording-position information and output-time information into the storage means (e.g. figure 19, column 14, line 20- column 15, line 16, controller 211);

identify, for reproducing the leading frame of the access block, the recording position of the reading frame on the basis of recording-position information for the access block and output-time information for the leading frame of each access block, stored in the storage means (e.g. figure 19, column 14, line 20- column 15, line 16, controller 211); and

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read, for reproducing a frame other than the leading frame of the access block, recording-position information and output-time information for the object frame from the data area of the recording medium on the basis of recording-position information for an access block including the object frame stored in the storage means to identify the recording position and output time of the object frame on the basis of the read recording-position information and output-time information (e.g. figure 19, column 14, line 20- column 15, line 16, controller 211).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daquan Zhao whose telephone number is (571) 270-1119. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tran Thai Q, can be reached on (571)272-7382. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Daquan Zhao/

Examiner, Art Unit 2484

/Thai Tran/

Supervisory Patent Examiner, Art Unit 2484